

02-06-07

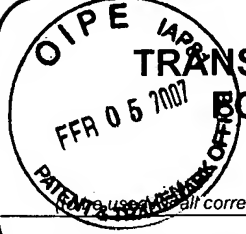
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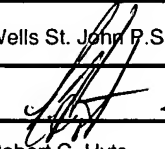
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|  | Application Number   | 10/587,724                        |
|   | Filing Date          | July 26, 2006                     |
|   | First Named Inventor | Janet Boggs                       |
|   | Art Unit             | Unassigned                        |
|   | Examiner Name        | Unknown                           |
| Total Number of Pages in This Submission  |                      | Attorney Docket Number<br>PC3-293 |

| ENCLOSURES (Check all that apply)   |   |  |
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| Signature                                  |  |          |        |
| Printed name                               | Robert C. Hyta  |          |        |
| Date                                       | 2/1/07  | Reg. No. | 46,791 |

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EV979440200



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 10/587,724  
Filing Date ..... July 26, 2006  
Inventor..... Janet Boggs et al.  
Assignee..... Great Lakes Chemical Corp.  
Group Art Unit..... Unassigned  
Examiner ..... Unknown  
Attorney's Docket No. .... PC3-293  
Customer No. .... 021567  
Title: Production Processes and Systems, Compositions, Surfactants, Monomer Units,  
Metal Complexes, Phosphate Esters, Glycols, Aqueous Film Forming Foams, and  
Foam Stabilizers

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

References -- See Attached Form PTO-1449


The attached Form PTO-1449 is submitted In compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, your attention is directed to the references listed on the attached Form PTO-1449. Pursuant to Federal Register Vol. 69, No. 182, pg. 56542 (September 21, 2004), no copies of any cited U.S. patents or U.S. published applications are included herewith. Copies of all other cited art references are attached. No admission is made regarding whether the submitted references are prior art.

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Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 2/1/07

By:   
Robert C. Hyta  
Reg. No. 46,791

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| Form PTO 1449   |  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  | ATTY. DOCKET NO.<br>PC3-293   |  | SERIAL NO.<br>10/587,724 |  |
| <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-right: 10px;"> <b>PTO</b><br/> <b>FFR 05 2007</b> </div> <div> <b>LIST OF ART CITED BY APPLICANT</b><br/>           (Use several sheets if necessary)         </div> </div> |  |  |  | APPLICANT: Janet Boggs et al. |  |                          |  |
|   |  |  |  | FILING DATE<br>July 26, 2006  |  | GROUP<br>Unknown         |  |

| U.S. PATENT DOCUMENTS |    |                 |       |                    |       |          |                            |
|-----------------------|----|-----------------|-------|--------------------|-------|----------|----------------------------|
| Examiner Initial      |    | Document Number | Date  | Name               | Class | Subclass | Filing Date If Appropriate |
|                       | AA | 1,092,141       | 11/67 | Daikin et al.      |       |          |                            |
|                       | AB | 2,559,749       | 07/51 | Benning            |       |          |                            |
|                       | AC | 2,567,011       | 09/51 | Diesslin et al.    |       |          |                            |
|                       | AD | 2,597,702       | 05/52 | Benning            |       |          |                            |
|                       | AE | 2,995,542       | 08/61 | Brown              |       |          |                            |
|                       | AF | 3,083,224       | 03/63 | Brace et al.       |       |          |                            |
|                       | AG | 3,096,207       | 07/63 | Cohen              |       |          |                            |
|                       | AH | 3,112,241       | 11/63 | Mackenzie          |       |          |                            |
|                       | AI | 3,145,222       | 08/64 | Brace              |       |          |                            |
|                       | AJ | 3,172,910       | 03/65 | Brace              |       |          |                            |
|                       | AK | 3,194,840       | 07/65 | Berry              |       |          |                            |
|                       | AL | 3,238,235       | 03/66 | Hauptschein et al. |       |          |                            |

| FOREIGN PATENT DOCUMENTS |    |                 |       |                    |       |          |             |    |
|--------------------------|----|-----------------|-------|--------------------|-------|----------|-------------|----|
|                          |    | Document Number | Date  | Country            | Class | Subclass | Translation |    |
|                          |    |                 |       |                    |       |          | Yes         | No |
|                          | AM | EP 765676       | 04/97 | Europe (abstract)  |       |          | x           |    |
|                          | AN | DE 2120868      | 11/71 | Germany (abstract) |       |          | x           |    |
|                          | AO | DE 2239709      | 02/73 | Germany (abstract) |       |          | x           |    |
|                          | AP | DE 2247111      | 04/74 | Germany (abstract) |       |          | x           |    |

| OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.) |    |  |  |
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|   | AQ |  |  |

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|   |    |  |       | FILING DATE<br>July 26, 2006  | GROUP<br>Unknown         |          |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |    |  |       |                               |                          |          |                            |
| Examiner Initial  |    | Document Number  | Date  | Name                          | Class                    | Subclass | Filing Date If Appropriate |
|   | AA | 3,256,231  | 06/66 | Johnson, Jr. et al.           |                          |          |                            |
|   | AB | 3,282,905  | 11/66 | Fasick et al.                 |                          |          |                            |
|   | AG | 3,304,278  | 02/67 | Hauptschein et al.            |                          |          |                            |
|   | AD | 3,351,643  | 11/67 | Hauptschein et al.            |                          |          |                            |
|   | AE | 3,351,644  | 11/67 | Hauptschein et al.            |                          |          |                            |
|   | AF | 3,450,755  | 06/69 | Ahlbrecht                     |                          |          |                            |
|   | AG | 3,457,247  | 07/69 | Katsushima et al.             |                          |          |                            |
|   | AH | 3,458,571  | 07/69 | Tokoli                        |                          |          |                            |
|   | AI | 3,475,333  | 10/69 | Meldrum et al.                |                          |          |                            |
|   | AJ | 3,491,169  | 01/70 | Raynolds et al.               |                          |          |                            |
|   | AK | 3,497,575  | 02/70 | Kleiner et al.                |                          |          |                            |
|   | AL | 3,498,958  | 03/70 | Ray-Chaudhuri et al.          |                          |          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                               |                          |          |                            |
|   |    | Document Number  | Date  | Country                       | Class                    | Subclass | Translation                |
|   |    |  |       |                               |                          |          | Yes      No                |
|   | AM | DE 2247182   | 04/74 | Germany (abstract)            |                          |          | x                          |
|   | AN | GB 2 070 595   | 02/80 | United Kingdom                |                          |          | x                          |
|   | AO | GB 2 018 759   | 04/78 | United Kingdom                |                          |          | x                          |
|   | AP | JP 04272986  | 09/92 | Japan (abstract)              |                          |          | x                          |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                               |                          |          |                            |
|   | AQ |  |       |                               |                          |          |                            |
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| <b>U.S. PATENT DOCUMENTS</b>  |    |  |       |                    |                               |                          |                               |
| Examiner<br>Initial   |    | Document<br>Number   | Date  | Name               | Class                         | Subclass                 | Filing Date<br>If Appropriate |
|   | AA | 3,514,420  | 05/70 | Katsushima et al.  |                               |                          |                               |
|   | AB | 3,532,659  | 10/70 | Hager et al.       |                               |                          |                               |
|   | AC | 3,536,749  | 10/70 | Groves             |                               |                          |                               |
|   | AD | 3,544,663  | 12/70 | Hauptschein et al. |                               |                          |                               |
|   | AF | 3,574,518  | 04/71 | Detomaso           |                               |                          |                               |
|   | AF | 3,575,940  | 04/71 | Katsushima et al.  |                               |                          |                               |
|   | AG | 3,623,963  | 11/71 | Voss et al.        |                               |                          |                               |
|   | AH | 3,636,085  | 01/72 | Kleiner            |                               |                          |                               |
|   | AI | 3,721,706  | 03/73 | Hoffman et al.     |                               |                          |                               |
|   | AJ | 3,752,783  | 08/73 | Iwantani           |                               |                          |                               |
|   | AK | 3,759,981  | 09/73 | Hager et al.       |                               |                          |                               |
|   | AL | 3,816,277  | 06/74 | Haszeldine et al.  |                               |                          |                               |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                    |                               |                          |                               |
|   |    | Document<br>Number   | Date  | Country            | Class                         | Subclass                 | Translation                   |
|   |    |  |       |                    |                               |                          | Yes      No                   |
|   | AM | JP 04272987  | 09/92 | Japan (abstract)   |                               |                          | x                             |
|   | AN | JP 43020466  | 09/68 | Japan (abstract)   |                               |                          | x                             |
|   | AO | JP 44001216  | 01/69 | Japan (abstract)   |                               |                          | x                             |
|   | AP | JP 48023684  | 03/73 | Japan (abstract)   |                               |                          | x                             |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                    |                               |                          |                               |
|   | AQ | Krafft, et al.; "Highly fluorinated amphiphiles and colloidal systems...."; Biochimie 1998; 1 page; (Database 1998:620482 CAPLUS)                      |       |                    |                               |                          |                               |
|   | AR | Nivet et al; "Synthesis and bioacceptability of fluorinated...."; European Journal of Medicinal Chemistry, 1992; 1 page; (Database 1993:408334 CAPLUS) |       |                    |                               |                          |                               |
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|   |    |  |       |                   | FILING DATE<br>July 26, 2006  |          | GROUP<br>Unknown           |    |
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| Examiner Initial  |    | Document Number  | Date  | Name              | Class                         | Subclass | Filing Date If Appropriate |    |
|   | AA | 3,824,126  | 07/74 | Katsushima et al. |                               |          |                            |    |
|   | AB | 3,839,425  | 10/74 | Bartlett          |                               |          |                            |    |
|   | AC | 3,843,735  | 04/74 | Knell, et al.     |                               |          |                            |    |
|   | AD | 3,883,596  | 05/75 | Hager et al.      |                               |          |                            |    |
|   | AE | 3,899,484  | 08/75 | Walter            |                               |          |                            |    |
|   | AF | 3,906,049  | 09/75 | Hager et al.      |                               |          |                            |    |
|   | AG | 3,907,576  | 09/75 | Dear et al.       |                               |          |                            |    |
|   | AH | 3,919,361  | 11/75 | Katsushima et al. |                               |          |                            |    |
|   | AI | 3,933,819  | 01/76 | Toukan et al.     |                               |          |                            |    |
|   | AJ | 3,957,657  | 05/76 | Chiesa, Jr.       |                               |          |                            |    |
|   | AK | 4,000,188  | 12/76 | Dear et al.       |                               |          |                            |    |
|   | AL | 4,043,923  | 08/77 | Loudas            |                               |          |                            |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                   |                               |          |                            |    |
|   |    | Document Number  | Date  | Country           | Class                         | Subclass | Translation                |    |
|   |    |  |       |                   |                               |          | Yes                        | No |
|   | AM | JP 49040040  | 10/74 | Japan (abstract)  |                               |          | x                          |    |
|   | AN | JP 53081799  | 07/78 | Japan (abstract)  |                               |          | x                          |    |
|   | AO | JP 55071779  | 05/80 | Japan (abstract)  |                               |          | x                          |    |
|   | AP | JP 56122336  | 09/81 | Japan (abstract)  |                               |          | x                          |    |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                   |                               |          |                            |    |
|   | AQ | Sawada et al.; "Synthesis and properties of...."; European Polymer Journal, 1999, 1 page; (Database 1999:411635 CAPLUS)                  |       |                   |                               |          |                            |    |
|   | AR | Nivet et al.; "Evaluation of a series of...."; Journal of Dispersion Science and Technology, 1992 ; 1 page; (Database 1993:66807 CAPLUS) |       |                   |                               |          |                            |    |
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| <b>U.S. PATENT DOCUMENTS</b>  |    |   |       |                  |                               |                          |                            |
| Examiner Initial  |    | Document Number   | Date  | Name             | Class                         | Subclass                 | Filing Date If Appropriate |
|   | AA | 4,060,132   | 11/77 | Chiesa Jr.       |                               |                          |                            |
|   | AB | 4,060,489   | 11/77 | Chiesa Jr.       |                               |                          |                            |
|   | AC | 4,081,399   | 03/78 | Dear et al.      |                               |                          |                            |
|   | AD | 4,089,804   | 05/78 | Falk             |                               |                          |                            |
|   | AE | 4,113,748   | 09/78 | Hager et al.     |                               |                          |                            |
|   | AF | 4,126,633   | 11/78 | Toukan et al.    |                               |                          |                            |
|   | AG | 4,127,711   | 11/78 | Lore et al.      |                               |                          |                            |
|   | AH | 4,134,754   | 01/79 | Hoffman          |                               |                          |                            |
|   | AI | 4,145,382   | 03/79 | Hayashi et al.   |                               |                          |                            |
|   | AJ | 4,147,851   | 04/79 | Raynolds         |                               |                          |                            |
|   | AK | 4,170,636   | 10/79 | Engel et al.     |                               |                          |                            |
|   | AL | 4,177,351   | 12/79 | Toukan et al.    |                               |                          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |   |       |                  |                               |                          |                            |
|   |    | Document Number   | Date  | Country          | Class                         | Subclass                 | Translation                |
|   |    |   |       |                  |                               |                          | Yes    No                  |
|   | AM | JP 56169666   | 12/81 | Japan (abstract) |                               |                          | x                          |
|   | AN | JP 58042682   | 03/83 | Japan (abstract) |                               |                          | x                          |
|   | AO | JP 58201752   | 11/83 | Japan (abstract) |                               |                          | x                          |
|   | AP | JP 59059977   | 04/84 | Japan (abstract) |                               |                          | x                          |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |   |       |                  |                               |                          |                            |
|   | AQ | Nivet et al.; "Synthesis of new ***perfluoroalkylated*** ...."; New Journal of Chemistry 1994; 1 page; (Database 1995:38527 CAPLUS) |       |                  |                               |                          |                            |
|   | AR | Sawada et al.; "Novel fluorinated...."; Nihon Yukagakkaishi, 2000; 1 page; (Database 2000:752279 CAPLUS)                            |       |                  |                               |                          |                            |
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| Examiner Initial  |    | Document Number  | Date  | Name               | Class                         | Subclass                 | Filing Date If Appropriate |
|   | AA | 4,188,307  | 02/80 | Bathelt            |                               |                          |                            |
|   | AB | 4,192,754  | 03/80 | Marshall et al.    |                               |                          |                            |
|   | AC | 4,209,456  | 06/80 | Billenstein et al. |                               |                          |                            |
|   | AD | 4,230,495  | 10/80 | Lee et al.         |                               |                          |                            |
|   | AE | 4,254,266  | 03/81 | Toukan et al.      |                               |                          |                            |
|   | AF | 4,283,533  | 08/81 | Richter            |                               |                          |                            |
|   | AG | 4,303,534  | 12/81 | Hisamoto et al.    |                               |                          |                            |
|   | AH | 4,306,979  | 12/81 | Tsuji              |                               |                          |                            |
|   | AI | 4,317,859  | 03/82 | Smith              |                               |                          |                            |
|   | AJ | 4,351,946  | 09/82 | Toukan et al.      |                               |                          |                            |
|   | AK | 4,366,299  | 12/82 | Dessaint           |                               |                          |                            |
|   | AL | 4,387,032  | 06/83 | Chiesa, Jr.        |                               |                          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                    |                               |                          |                            |
|   |    | Document Number  | Date  | Country            | Class                         | Subclass                 | Translation                |
|   |    |  |       |                    |                               |                          | Yes    No                  |
|   | AM | JP 61069813  | 04/86 | Japan (abstract)   |                               |                          | x                          |
|   | AN | JP 08012536  | 01/96 | Japan (abstract)   |                               |                          | x                          |
|   | AO | JP 08081883  | 03/96 | Japan (abstract)   |                               |                          | x                          |
|   | AP | JP 2000126327  | 05/00 | Japan (abstract)   |                               |                          | x                          |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                    |                               |                          |                            |
|   | AQ | Enjalbert et al.; "Synthesis of new cationic and amphoteric triple-chain....";<br>Research on Chemical Intermediates, 1998; 1 page; (Database 1998:422963<br>CAPLUS) |       |                    |                               |                          |                            |
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| Form PTO-1449   |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE   |       |                          | ATTY. DOCKET NO.<br>PC3-293   |          | SERIAL NO.<br>10/587,724   |    |
| LIST OF ART CITED BY APPLICANT<br>(Use several sheets if necessary)   |    |  |       |                          | APPLICANT: Janet Boggs et al. |          |                            |    |
|   |    |  |       |                          | FILING DATE<br>July 26, 2006  |          | GROUP<br>Unknown           |    |
| <b>U.S. PATENT DOCUMENTS</b>  |    |  |       |                          |                               |          |                            |    |
| Examiner Initial  |    | Document Number  | Date  | Name                     | Class                         | Subclass | Filing Date If Appropriate |    |
|   | AA | 4,388,212  | 06/83 | Richter                  |                               |          |                            |    |
|   | AB | 4,419,298  | 12/83 | Falk et al.              |                               |          |                            |    |
|   | AC | 4,420,434  | 12/83 | Falk                     |                               |          |                            |    |
|   | AD | 4,424,133  | 01/84 | Mulligan                 |                               |          |                            |    |
|   | AE | 4,460,480  | 07/84 | Kleiner et al.           |                               |          |                            |    |
|   | AF | 4,464,267  | 08/84 | Chiesa, Jr. et al.       |                               |          |                            |    |
|   | AG | 4,472,286  | 09/84 | Falk                     |                               |          |                            |    |
|   | AH | 4,478,975  | 10/84 | Dessaint et al.          |                               |          |                            |    |
|   | AI | 4,486,391  | 12/84 | Hashimoto                |                               |          |                            |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                          |                               |          |                            |    |
|   |    | Document Number  | Date  | Country                  | Class                         | Subclass | Translation                |    |
|   |    |  |       |                          |                               |          | Yes                        | No |
|   | AJ | JP 2000159840  | 06/00 | Japan (abstract)         |                               |          | x                          |    |
|   | AK | JP 2003312156  | 11/03 | Japan (abstract)         |                               |          | x                          |    |
|   | AL | US2005/003429  | 01/05 | PCT-IPRP/Written Opinion |                               |          | x                          |    |
|   | AM | US05/03429   | 01/05 | PCT-Int'l Search Rpt     |                               |          | x                          |    |
|   | AN | US2005/002617  | 01/05 | PCT-IPRP/Written Opinion |                               |          | x                          |    |
|   | AO | US05/02617   | 01/05 | PCT-Int'l Search Rpt     |                               |          | x                          |    |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                          |                               |          |                            |    |
|   | AP | Szonyi et al.; "Synthesis of new amphoteric ... double-chain...."; Rivista Italiana delle Sostanze Grasse, 1998; 1 page; (Database 1998:465664 CAPLUS) |       |                          |                               |          |                            |    |
|   | AQ | Prescher et al.; "Nitrogen-containing fluorosurfactants:"; Tenside, Surfactants, Detergents, 1992; 1 page; (Database 1992:653923 CAPLUS)               |       |                          |                               |          |                            |    |
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| Examiner<br>Initial   |    | Document<br>Number  | Date  | Name                     | Class                         | Subclass                 | Filing Date<br>If Appropriate |
|   | AA | 4,507,859   | 04/85 | Shinjo                   |                               |                          |                               |
|   | AB | 4,563,287   | 01/86 | Hisamoto et al.          |                               |                          |                               |
|   | AC | 4,591,473   | 05/86 | Lofquist et al.          |                               |                          |                               |
|   | AD | 4,600,774   | 07/86 | Koshar                   |                               |                          |                               |
|   | AE | 4,697,011   | 09/87 | DesMarteau               |                               |                          |                               |
|   | AF | 4,717,744   | 01/88 | Boutevin et al.          |                               |                          |                               |
|   | AG | 4,720,578   | 01/86 | Liu                      |                               |                          |                               |
|   | AH | 4,760,205   | 07/88 | Probst et al.            |                               |                          |                               |
|   | AI | 4,833,274   | 05/89 | Caporiccio et al.        |                               |                          |                               |
|   | AJ | 4,879,324   | 11/89 | Lausberg et al.          |                               |                          |                               |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |   |       |                          |                               |                          |                               |
|   |    | Document<br>Number  | Date  | Country                  | Class                         | Subclass                 | Translation                   |
|   |    |   |       |                          |                               |                          | Yes      No                   |
|   | AK | US2005/003433   | 01/05 | PCT-IPRP/Written Opinion |                               |                          | x                             |
|   | AL | US05/03433  | 01/05 | PCT-Int'l Search Rpt     |                               |                          | x                             |
|   | AM | US2005/003137   | 01/05 | PCT-IPRP/Written Opinion |                               |                          | x                             |
|   | AN | US05/03137  | 01/05 | PCT-Int'l Search Rpt     |                               |                          | x                             |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |   |       |                          |                               |                          |                               |
|   | AO | Enjalbert et al.; "Synthesis fo new double-chain cationic...."; Tenside, Surfactants, Detergents, 1998; 1 page; (Database 1992:550675 CAPLUS) |       |                          |                               |                          |                               |
|   | AP | Rzhevskii et al.; "Testing of ***surfactants*** ...."; Tsvetnye Metally (Moscow), 1998; 1 page; (Database 1999:114673 CAPLUS)                 |       |                          |                               |                          |                               |
|   | AQ | Murata et al.; "Selective synthesis of fluorinated ethers...."; The Royal Society of Chemistry, 2002; pps. 60-63                              |       |                          |                               |                          |                               |
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| <b>U.S. PATENT DOCUMENTS</b>   |    |  |       |                             |                               |                          |                               |    |
| Examiner<br>Initial  |    | Document<br>Number   | Date  | Name                        | Class                         | Subclass                 | Filing Date<br>If Appropriate |    |
|  | AA | 4,985,526  | 01/91 | Kishita et al.              |                               |                          |                               |    |
|  | AB | 4,983,769  | 01/91 | Bertocchio et al.           |                               |                          |                               |    |
|  | AC | 4,898,981  | 02/90 | Falk et al.                 |                               |                          |                               |    |
|  | AD | 5,026,910  | 06/91 | Bollens et al.              |                               |                          |                               |    |
|  | AE | 5,091,550  | 02/92 | Falk et al.                 |                               |                          |                               |    |
|  | AF | 5,107,021  | 04/92 | Bollens et al.              |                               |                          |                               |    |
|  | AG | 5,132,445  | 07/92 | Falk et al.                 |                               |                          |                               |    |
|  | AH | 5,218,021  | 06/93 | Clark et al.                |                               |                          |                               |    |
|  | AI | 5,240,990  | 08/93 | Kallfass et al.             |                               |                          |                               |    |
|  | AJ | 5,310,870  | 05/94 | Peavy                       |                               |                          |                               |    |
|  | AK | 5,310,870  | 05/94 | Peavy                       |                               |                          |                               |    |
|  | AL | 5,391,721  | 02/95 | Hanen et al.                |                               |                          |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>  |    |  |       |                             |                               |                          |                               |    |
|  |    | Document<br>Number   | Date  | Country                     | Class                         | Subclass                 | Translation                   |    |
|  |    |  |       |                             |                               |                          | Yes                           | No |
|  | AM | US2005/003138  | 01/05 | PCT-IPRP/Written<br>Opinion |                               |                          | x                             |    |
|  | AN | US05/03138   | 01/05 | PCT-Int'l Search Rpt        |                               |                          | x                             |    |
|  | AO | 7-793  | 07/95 | Japan                       |                               |                          |                               | x  |
|  | AP | 2-12681  | 02/90 | Japan                       |                               |                          |                               | x  |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)   |    |  |       |                             |                               |                          |                               |    |
|  | AQ |  |       |                             |                               |                          |                               |    |
| EXAMINER   |    |  |       |                             | DATE CONSIDERED               |                          |                               |    |
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|   |    |  |       |                     | FILING DATE<br>July 26, 2006  |                          | GROUP<br>Unknown           |
| <b>U.S. PATENT DOCUMENTS</b>  |    |  |       |                     |                               |                          |                            |
| Examiner Initial  |    | Document Number  | Date  | Name                | Class                         | Subclass                 | Filing Date If Appropriate |
|   | AA | 5,395,997  | 03/97 | Van Der Puy, et al. |                               |                          |                            |
|   | AB | 5,439,998  | 08/95 | Lina et al.         |                               |                          |                            |
|   | AC | 5,478,486  | 12/95 | Incorvia            |                               |                          |                            |
|   | AD | 5,491,261  | 02/96 | Haniff et al.       |                               |                          |                            |
|   | AE | 5,504,265  | 04/96 | Krespan et al.      |                               |                          |                            |
|   | AF | 5,508,099  | 04/96 | Incorvia            |                               |                          |                            |
|   | AG | 5,534,192  | 07/96 | Incorvia et al.     |                               |                          |                            |
|   | AH | 5,539,024  | 07/96 | Kirchmeyer et al.   |                               |                          |                            |
|   | AI | 5,547,711  | 08/96 | Kirchmeyer et al.   |                               |                          |                            |
|   | AJ | 5,629,372  | 05/97 | Anton et al.        |                               |                          |                            |
|   | AK | 5,639,845  | 06/97 | Inomata et al.      |                               |                          |                            |
|   | AL | 5,648,527  | 07/97 | Prossel et al.      |                               |                          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                     |                               |                          |                            |
|   |    | Document Number  | Date  | Country             | Class                         | Subclass                 | Translation                |
|   |    |  |       |                     |                               |                          | Yes      No                |
|   | AM | WO 94/18245  | 08/94 | PCT                 |                               |                          | x                          |
|   | AN | WO 98/19742  | 05/98 | PCT                 |                               |                          | x                          |
|   | AO | WO 01/27235<br>A1  | 04/01 | PCT                 |                               |                          | x                          |
|   | AP |  |       |                     |                               |                          |                            |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                     |                               |                          |                            |
|   | AQ |  |       |                     |                               |                          |                            |
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| Examiner<br>Initial   |    | Document<br>Number   | Date  | Name                | Class                         | Subclass | Filing Date<br>If Appropriate |    |
|   | AA | 5,648,528  | 07/97 | Prossel et al.      |                               |          |                               |    |
|   | AB | 5,674,961  | 10/97 | Fitzgerald          |                               |          |                               |    |
|   | AC | 5,798,415  | 08/98 | Corpart et al.      |                               |          |                               |    |
|   | AD | 5,827,919  | 10/98 | May                 |                               |          |                               |    |
|   | AE | 5,847,206  | 12/98 | Pavia et al.        |                               |          |                               |    |
|   | AF | 5,883,185  | 03/99 | Matsumura et al.    |                               |          |                               |    |
|   | AG | 5,919,527  | 07/99 | Fitzgerald et al.   |                               |          |                               |    |
|   | AH | 5,965,656  | 10/99 | Yamamoto et al.     |                               |          |                               |    |
|   | AI | 6,002,002  | 12/99 | Ürögdi et al.       |                               |          |                               |    |
|   | AJ | 6,015,838  | 01/00 | Stern et al.        |                               |          |                               |    |
|   | AK | 6,031,141  | 02/00 | Mallikarjuna et al. |                               |          |                               |    |
|   | AL | 6,120,892  | 09/00 | Fitzgerald et al.   |                               |          |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |  |       |                     |                               |          |                               |    |
|   |    |  |       |                     | Class                         | Subclass | Translation                   |    |
|   |    |  |       |                     |                               |          | Yes                           | No |
|   | AM |  |       |                     |                               |          |                               |    |
|   | AN |  |       |                     |                               |          |                               |    |
|   | AO |  |       |                     |                               |          |                               |    |
|   | AP |  |       |                     |                               |          |                               |    |
| <b>OTHER REFERENCES</b> (including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |       |                     |                               |          |                               |    |
|   | AQ |  |       |                     |                               |          |                               |    |
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|   | AA      | 6,197,382 B1   | 03/01 | Ornstein et al.   |                               |                          |                            |
|   | AB      | 6,218,464 B1   | 04/01 | Parker et al.     |                               |                          |                            |
|   | AC      | 6,284,853 B1   | 09/01 | Yamana et al.     |                               |                          |                            |
|   | AD      | 6,294,107 B1   | 09/01 | Peters et al.     |                               |                          |                            |
|   | AA<br>E | 6,297,308 B1   | 10/01 | Jariwala et al.   |                               |                          |                            |
|   | AF      | 6,379,578 B1   | 04/02 | Shiga             |                               |                          |                            |
|   | AG      | 6,383,569 B2   | 05/02 | Ornstein et al.   |                               |                          |                            |
|   | AH      | 6,486,245 B1   | 11/02 | Thünemann et al.  |                               |                          |                            |
|   | AI      | 6,451,717 B1   | 09/02 | Fitzgerald et al. |                               |                          |                            |
|   | AJ      | 6,509,300 B1   | 01/03 | Gupta             |                               |                          |                            |
|   | AK      | 6,525,127 B1   | 02/03 | Jariwala et al.   |                               |                          |                            |
|   | AL      | 6,536,804 B1   | 03/03 | Dunsmore et al.   |                               |                          |                            |
|   | AM      | 6,566,470 B2   | 05/03 | Kantamneni et al. |                               |                          |                            |
|   | AN      | 6,613,862 B2   | 09/03 | Clark et al.      |                               |                          |                            |
|   | AO      | 6,646,088 B2   | 11/03 | Fan et al.        |                               |                          |                            |
|   | AP      | 6,800,788 B2   | 10/04 | Bradley et al.    |                               |                          |                            |
|   | AQ      | 6,803,109 B2   | 10/04 | Qiu et al.        |                               |                          |                            |
|   | AR      | 6,803,425 B2   | 10/04 | Hintzer et al.    |                               |                          |                            |
|   | AS      |  |       |                   |                               |                          |                            |
|   | AT      |  |       |                   |                               |                          |                            |
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|   | AA | 6,809,216 B2   | 10/04 | Bradley et al.                |       |                          |                               |
|   | AB | 6,814,880 B1   | 11/04 | Graf et al.                   |       |                          |                               |
|   | AC | 6,818,253 B2   | 11/04 | Kimbrell                      |       |                          |                               |
|   | AD | 6,818,717 B2   | 11/04 | Kantamneni                    |       |                          |                               |
|   | AE | 6,821,496 B2   | 11/04 | Igumnov et al.                |       |                          |                               |
|   | AF | 6,824,754 B2   | 11/04 | Subramaniam et al.            |       |                          |                               |
|   | AG | 6,824,882 B2   | 11/04 | Boardman et al.               |       |                          |                               |
|   | AH | 6,830,703 B2   | 12/04 | Klug et al.                   |       |                          |                               |
|   | AI | 6,833,419 B2   | 12/04 | Morschhäuser et al.           |       |                          |                               |
|   | AJ | 2001/0000343   | 04/01 | Bowers                        |       |                          |                               |
|   | AK | 2002/0042034   | 04/02 | Yoshioka                      |       |                          |                               |
|   | AL | 2003/0013924   | 01/03 | Howell et al.                 |       |                          |                               |
|   | AM | 2003/0092862   | 05/03 | Thomas et al.                 |       |                          |                               |
|   | AN | 2003/0109662   | 06/03 | Medsker et al.                |       |                          |                               |
|   | AO | 2003/0153780   | 08/03 | Haniff et al.                 |       |                          |                               |
|   | AP | 2003/0195314   | 08/03 | Buckanin et al.               |       |                          |                               |
|   | AQ | 2003/0207202   | 11/03 | Fujita et al.                 |       |                          |                               |
| EXAMINER  |    | DATE CONSIDERED  |       |                               |       |                          |                               |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |    |  |       |                               |       |                          |                               |